



# DOW™ LLDPE MP 1888.11 Copolymer Linear Low Density Polyethylene Resin

## Overview

- Octene Copolymer
- Linear Low Density Polyethylene
- For high speed blown film applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a.

## Additive

- Antiblock: 5555 ppm
- Slip: 1000 ppm
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.926 g/cm <sup>3</sup>	0.926 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	1.6 g/10 min	1.6 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2 mil	51 µm	
Film Puncture Resistance (2.0 mil (51 µm))	43.0 ft·lb/in <sup>3</sup>	3.56 J/cm <sup>3</sup>	Dow Method
Film Toughness			ASTM D882
MD : 2.0 mil (51 µm)	3100 ft·lb/in <sup>3</sup>	256 J/cm <sup>3</sup>	
TD : 2.0 mil (51 µm)	2910 ft·lb/in <sup>3</sup>	241 J/cm <sup>3</sup>	
Secant Modulus			ASTM D882
2% Secant, MD : 2.0 mil (51 µm)	27900 psi	192 MPa	
2% Secant, TD : 2.0 mil (51 µm)	35700 psi	246 MPa	
Tensile Strength			ASTM D882
MD : Yield, 2.0 mil (51 µm)	1760 psi	12.1 MPa	
TD : Yield, 2.0 mil (51 µm)	1860 psi	12.8 MPa	
MD : Break, 2.0 mil (51 µm)	5640 psi	38.9 MPa	
TD : Break, 2.0 mil (51 µm)	4740 psi	32.7 MPa	
Tensile Elongation			ASTM D882
MD : Break, 2.0 mil (51 µm)	750 %	750 %	
TD : Break, 2.0 mil (51 µm)	770 %	770 %	
Dart Drop Impact (2.0 mil (51 µm))	170 g	170 g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 2.0 mil (51 µm)	800 g	800 g	
TD : 2.0 mil (51 µm)	1200 g	1200 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	226 °F	108 °C	ASTM D1525
Melting Temperature (DSC)	252 °F	122 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 2.00 mil (50.8 µm))	51	51	ASTM D2457
Haze (2.00 mil (50.8 µm))	17.0 %	17.0 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	395 to 420 °F	202 to 216 °C	



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## Extrusion Notes

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### Fabrication Conditions For Blown Film:

- Screw Size: 2.5 in. (63.5 mm); 24:1 L/D
- Screw Type: MC-4 with Maddock Mixer
- Die Gap: 40 mil (1.0 mm)
- Melt Temperature: 395-420°F (202-216°C)
- Output: 7 lb/hr/in. of die circumference
- Die Diameter: 6 in.
- Blow-Up Ratio: 2.5:1
- Screw Speed: 50 rpm
- Frost Line Height: 15 in. (381 mm)
- Haul Off Speed: 75 fpm (23 m/min)

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

